Amendments to the Claims

Please cancel Claims 1, 4, 8, 13, 16, 20, 25, and 28. Please amend Claims 2, 3, 5-7, 9-12, 14-15, 17-19, 21, 23-24, 26-27, and 29. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1. (Canceled)

2. (Currently Amended) ~~The method of claim 1, wherein said determining step includes:~~ A method for providing wireless communication, the method comprising the steps of:
   (a) receiving, at a first cell site, data for a subscriber, the data including a wired-network address;
   (b) determining, based on the wired-network address, whether the subscriber is located in the cell site, wherein said determining step includes:
      (i) retrieving a subscriber record; ~~and~~
      (ii) matching the wired-network address to the subscriber in the subscriber record[[.]];
   (c) if the subscriber is located in the cell site, retrieving a wireless-network identifier of the subscriber; and
   (d) transmitting the data, using the wireless-network identifier, via a wireless network to the subscriber.

3. (Currently Amended) The method of claim [[1]] 2, wherein the wireless-network identifier is an electronic serial number (ESN).

4. (Canceled)

5. (Currently Amended) ~~The method of claim 4, wherein said determining step includes the steps of:~~ A method for providing wireless communication, the method comprising the steps of:

(a) receiving, in a first cell site, data for a subscriber, the data including a wired-network address;

(b) determining, based on the wired-network address, whether the subscriber is located in a second cell site, wherein said determining step includes:

(i) retrieving a subscriber record; ~~and~~

(ii) matching the wired-network address to the subscriber in the subscriber record[[.]]; and

(c) if the subscriber is located in the second cell site, sending the data, via a tunnel, to a second cell site for wireless transmission to the subscriber.

6. (Currently Amended) The method of claim [[4]] 5, further comprising the step of:

(d) receiving from the second cell, via a backhaul network, handoff information for the subscriber.

7. (Currently Amended) The method of claim [[4]] 5, further comprising the step of:

(d) creating a tunnel over the backhaul network from the first cell site to the second cell site.

8. (Canceled)

9. (Currently Amended) The method of claim [[8]] 10, wherein said step of determining the subscriber to whom the address is assigned includes the steps of:

(i) storing the subscriber's wireless-network identifier in a database; and

(ii) retrieving the subscriber's wireless-network identifier from the database based on the received wired-network address.

10. (Currently Amended) ~~The method of claim 8, further comprising the steps of:~~
A method for providing wireless communication, the method comprising the steps of:
(a) receiving, via a tunnel from a first cell, data for a subscriber, the data including a dynamically-assigned wired-network address relating to a subscriber;
(b) determining the subscriber to whom the address is assigned;
(c) transmitting the data via the wireless network to the subscriber;
(d) receiving a request for a wired-network address server to renew a wired-network address lease;
(e) determining whether the subscriber has been handed off, if the subscriber has been handed off, denying the received request; and
(f) dynamically assigning a new wired-network address to the subscriber.

11. (Currently Amended) The method of claim [[9]] 10, wherein the subscriber's wired-network address is received from the first cell.

12. (Currently Amended) The method of claim [[9]] 10, wherein the subscriber's wired-network address is received from the subscriber.

13. (Canceled)

14. (Currently Amended) ~~The apparatus of claim 13, wherein said memory includes further instructions adapted to be executed on said processor, said further instructions comprising:~~ An apparatus for providing wireless communication, the apparatus comprising:
(a) a processor; and
(b) a memory coupled to said processor, said memory including a database that associates a subscriber's wired-network address with a subscriber's wireless network identifier, and said memory storing instructions adapted to be executed on said processor, said instructions comprising:

(i) receiving, at a first cell site, data for a subscriber, the data including a wired-network address;

(ii) determining, based on the wired-network address, whether the subscriber is located in the cell site;

(iii) if the subscriber is located in the cell site, retrieving a wireless-network identifier of the subscriber;

(iv) transmitting the data, using the wireless-network identifier, via a wireless network to the subscriber;

[[(i)]] (v) retrieving a subscriber record; and

[[(ii)]] (vi) matching the wired-network address to the subscriber in the subscriber record.

15. (Currently Amended) The apparatus of claim [[13]] 14, wherein the wireless-network identifier is an electronic serial number (ESN).

16. (Canceled)

17. (Currently Amended) ~~The apparatus of claim 16, said memory storing further instructions adapted to be executed by said processor, said further instructions comprising:~~ An apparatus for providing wireless communication, the apparatus comprising:

(a) a processor; and

(b) a memory coupled to said processor, said memory including a database that associates a subscriber's wired-network address with a subscriber's wireless-network identifier, and said memory storing instructions adapted to be executed on said processor, said instructions comprising:

(i) receiving, in a first cell site, data for a subscriber, the data including a wired-network address;

(ii) determining, based on the wired-network address, whether the subscriber is located in a second cell site;

(iii) if the subscriber is located in the second cell site, sending the data, via a tunnel, to a second cell site for wireless transmission to the subscriber;

(iv) retrieving a subscriber record; and

(v) matching the wired-network address to the subscriber in the subscriber record.

18. (Currently Amended) The apparatus of claim [[16]] 17, said memory storing further instructions adapted to be executed by said processor, said further instructions comprising:

[[(iv)]] (vi) receiving from the second cell, via a backhaul network, handoff information for the subscriber.

19. (Currently Amended) The apparatus of claim 18, said memory storing further instructions adapted to be executed by said processor, said further instructions comprising:

(vii) creating a tunnel over the backhaul network from the first cell site to the second cell site.

20. (Canceled)

21. (Currently Amended) The apparatus of claim [[20]] 24, said memory and further instructions adapted to be executed on said processor, the instructions including:

[[(iv)]] (viii) storing the subscriber's wireless-network identifier in a database; and

[[(v)]] (ix) retrieving the subscriber's wireless-network identifier from the database based on the received wired-network address.

22. (Original) The apparatus of claim 21, wherein the subscriber's wired-network address is received from the subscriber.

23. (Currently Amended) The apparatus of claim [[20]] 24, wherein the subscriber's wired-network address is received from the first cell.

24. (Currently Amended) ~~The apparatus of claim 20, said memory and further instructions adapted to be executed on said processor, the instructions including:~~ An apparatus for providing wireless communication, the apparatus comprising:

(a) a processor; and

(b) a memory coupled to said processor, said memory including a database that associates a subscriber's wired-network address with a subscriber's wireless network identifier, and said memory storing instructions adapted to be executed on said processor, said instructions comprising:

(i) receiving, via a backhaul network from a first cell, data for a subscriber, the data including a dynamically-assigned wired-network address relating to a subscriber;

(ii) determining the subscriber to whom the address is assigned;

(iii) transmitting the data via the wireless network to the subscriber

(iv) receiving a request for a wired-network address server to renew a wired-network address lease;

(v) determining whether the subscriber has been handed off,

(vi) if the subscriber has been handed off, denying the received request; and

(vii) dynamically assigning a new wired-network address to the subscriber.

25. (Canceled)

26. (Currently Amended) The method of claim [[25]] 27 further comprising:
[[(e)]] i storing a wireless-network identifier associated with the unoccupied address; and
[[(f)]] j marking the subscriber as being located in the originating cell site.

27. (Currently Amended) ~~The method of claim 26, further comprising the following steps:~~ A method for assigning a wired-network address to a subscriber, the method comprising the following steps:

(a) receiving a request for a wired-network address;

(b) identifying an originating cell site;

(c) identifying an unoccupied address associated with the originating cell site;

(d) assigning the unoccupied address to the subscriber;

[[(g)]] (e) receiving a request to renegotiate a wired-network address lease for a subscriber, the subscriber having a wired-network address assigned in an originating cell site;

[[(h)]] (f) determining whether the subscriber is located in the originating cell site;

[[(i)]] (g) if the subscriber is not in the originating cell site, denying the request; and

[[(j)]] (h) signing the subscriber a new wired-network-address lease based on the subscriber's current location.

28. (Canceled)

29. (Currently Amended) ~~The apparatus of claim 28, said memory storing further instructions adapted to be executed on said processor, the instructions including:~~ An apparatus for assigning a wired-network address to the subscriber, the apparatus comprising:

(a) a processor;

(b) a memory coupled to said processor, said memory storing instructions adapted to be executed on said processor, the instructions including:

(i) receiving a request for a wired-network address;

(ii) identifying an originating cell site;

(iii) identifying an unoccupied address associated with the originating cell site;

(iv) assigning the unoccupied address to the subscriber;

(v) storing a wireless network identifier associated with the unoccupied address; and

(v) marking the subscriber as located in the originating cell site.

30. (Original) A method for assigning a wired-network address, the method comprising the following steps:

(a) receiving a request to renegotiate a wired-network address lease for a subscriber, the subscriber having a wired-network address assigned in a first cell site;

(b) determining the present location of the subscriber; and

(c) if the subscriber is in a second cell site, denying the request.

31. (Original) The method of claim 30, further comprising the steps of:

(d) assigning the subscriber a new wired-network-address lease based on the subscriber's current location.

32. (Original) An apparatus for assigning a wired-network address, the apparatus comprising:

(a) a processor;

(b) a memory coupled to said processor, said memory storing instructions adapted to be executed by said processor, the instructions comprising:

(i) receiving a request to renegotiate a wired-network-address lease for a subscriber, the subscriber having a wired-network address assigned in a first cell site;

(ii) determining the present location of the subscriber; and

(iii) if the subscriber is in a second cell site, denying the request.

33. (Original) The apparatus of claim 32, wherein said memory stores further instructions adapted to be executed by said processor, the instructions including:

(iv) assigning the subscriber a new wired-network-address lease based on the subscriber's current location

34. (Original) A wireless network comprising:

(a) a server containing a pool of wired-network addresses;

(b) a plurality of base stations, each base station containing a database that associates subscriber wired-network addresses with subscriber wireless-network identifiers, and each base station being associated with a subset of the pool of wired-network addresses; and

(c) a backhaul network connecting each of the plurality of base stations with one another.

35. (Original) The wireless network of claim 34, wherein the wired-network addresses are Internet Protocol (IP) addresses.

36. (Original) The wireless network of claim 34, wherein the wireless-network identifiers are electronic serial numbers.

37. (Original) The wireless network of claim 35, wherein the wireless-network identifiers are electronic serial numbers.